

**DOMINION ENERGY SOUTH CAROLINA, INC.'S 2023 IRP
ERRATA SHEET**

Correction	Location	Correction Made ¹
1	P. 8	Table 1: The Eight Market Scenarios, 14 Build Plans, <u>and</u> 24 Cases and 15 Core Build Plans
2	P. 8	Table 1: “15 Core Build Plans <u>Cases</u> ”
3	P. 8, Last line of Table 1	“ <u>High Fuel</u> Williams <u>2047</u> High Fossil Fuel Prices Build Plan”
4	P. 9	“Table 2 below presents the twenty-four cases, with the fifteen Core Cases in blue, and the Sensitivity Cases <u>in green</u> , and <u>the</u> Supplemental Cases in orange.”
5	P. 10, ¶ 5	“CO ₂ emissions reductions vary between 55.2% and 60.0 <u>63.3</u> %...”
6	P. 15	“Medium Case which assumes that DESC offers the revised programs identified in the 2023 <u>DSM</u> Potential Study...”
7	P. 15, Figure 4	“Figure 4: Reduction in Growth in Energy Sales from DSM Programs (<u>Medium Case and</u> Maximum Achievable and Medium)”
8	P. 15, last sentence	“Under the Low Case, ICF determined DESC could achieve a 0.46% annual reduction in demand energy sales .”
9	P. 16, ¶ 5	“The roll out of DESC’s Automated <u>Advanced</u> Metering Infrastructure...”
10	P. 24, Table 7, Line 2	Solar Incremental ELCC “ MW-% ”
11	P. 25, ¶ 1	“...Docket No. 2022-162-E <u>2023-9-E</u> .”
12	P. 26	“Guidehouse also determined that the EV contribution to annual energy consumption would reach 337 <u>437</u> GWh by 2030...”
13	P. 28, ¶ 2	“DESC also prepared a Coal Plants Retirement Study, which it submitted to the Commission in Docket No. 2021-192-E, to identify an appropriate procedural schedule for retiring Williams and Wateree and <u>to</u> identify any relevant statutory and regulatory deadlines...”
14	P. 28, ¶ D.	“...the potential costs and risks to customers are reduced if replacement generation is at online by 2030.”
15	P. 37, ¶ 4	“After <u>the</u> modeling <u>in</u> the 2023 IRP was complete...”
16	P. 37, ¶ 4	“In total, DESC has contracts for solar generation totaling 1,174. 44 MW.”
17	P. 48, ¶ 3	“...on the low case and 524 MW on the high case, or minus 8.6% and <u>plus</u> 9.3%, respectively. The band around the reference energy forecast is between 2,342 GWh on the low case and 2,895 GWh on the high load case, or minus 8.0% and <u>plus</u> 9.9% of the reference forecast, respectively.”

¹ Additions are italicized and underlined; deletions are noted with a strikethrough

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18	P. 49, ¶ 3	“Specific DR programs have not yet been designed or approved but for planning purposes; <u>however</u> , it is reasonable to assume...”
19	P. 50, ¶ 1	“The natural gas prices used in the PLEXOS models in include both Henry Hub commodity prices...”
20	P. 52, ¶ 2	“DESC modeled the Solar Investment Tax Credit (“ITC”) as provided in the ATB.”
21	P. 58, ¶ 2	“These additions are envisioned as a two dual-unit projects...”
22	P. 59	“...it adds 523 MW of new CT Frame in years 2041 and 2049 as a dual unit projects.”
23	P. 63, ¶ 1	“...all three Core Market Scenarios assume Reference L load G growth and a medium level of cost-effective DSM.”
24	P. 63, ¶ 2	“The five Core Market Scenarios represent a range of assumptions for planning purposes that appropriately encompasses reasonable...”
25	P. 64, ¶ 1	“The Levelized Cost metric measures the costs to customers of each of the Core Build Plans based on the thirty-year levelized net present value (“LNPV”) of the incremental costs of each build plan.”
26	P. 64, Table 22	“30 Yr Level NPV (\$000M)”
27	P. 68, Table 33	“Able to generate or become a load-, shift energy, and complement renewables.”
28	P. 69, Table 36	“Mini-Max Regrets LNPV (\$millionM)”
29	P. 75, ¶ 2	“...retiring Williams by 2030 generates an annual reduction in the LNPV of charges to customers of \$37 million, or 1.68 6 %, and a 0.21% reduction in compound annual retail rate increases over the planning horizon compared to the <u>High Fuel</u> Williams 2047 High Fuel Build Plan.”
30	P. 75, ¶ 3	“...retiring Williams early reduced cumulative CO ₂ emissions by 10,054 million tons or 5.04 27 % more than the High Fuel Williams 2047 Build Plan...”
31	P. 75, Table 45	Title: “High <u>Fossil Fuel Prices Market Scenario</u> Williams 2047 Build Plan ”
32	P. 75, Table 46	Title: “High <u>Fossil Fuel Prices Market Scenario</u> Williams 2047 Build Plan ”
33	P. 77	“The values in the table show the total renewable generation by resource plan by five-year period under three m Market sScenarios for the Core Build Plans. Similar data for the sensitivity and supplemental cases are provided in Appendix E G.”
34	P. 77, Table 47	Replace Table 47 with Table 47 included below.
35	P. 78	Add the following text that was inadvertently deleted from the beginning of the paragraph: “ <u>Comparing the NPV of each Build Plan with the amount of renewable resources, there is a high</u>

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		<i>correlation between the increased cost of electricity with the addition of renewable energy resources as shown below in Figure 1321."</i>					
36	P. 83, ¶ 10	"...and replacing Wateree with both a 262 <u>MW</u> Frame CT and 400 MW of Battery..."					
37	P. 85, ¶ 3	"...and build plans often maintain similar same relative positions across Market Scenarios."					
38	P. 89, ¶ 2	"The analysis shows that the Reference Build Plan is slightly higher in LNPV cost than the High DSM Build Plan and the Low DSM Build Plan , but only by 1% and 0.8%, respectively. 0.3%, <u>and is lower than the Low DSM Build Plan, but only by 0.27%.</u> "					
39	P. 89, ¶ 2	"The resulting difference in the CAGR in the retail rates among the DSM Sensitivities is only 0.01% and 0.19% <u>0.00% and 0.07%</u> as compared to the Reference Build Plan (a CAGR of 1.46% 1.47% for the High DSM Build Plan <u>and the Reference Build Plan</u> and 1.38% <u>1.39%</u> for the Low DSM Build Plan compared to 1.47% for the Reference Build Plan)."					
40	P. 89, ¶ 3	"The <u>High and Low</u> DSM assumptions have little impact on carbon emissions over the planning horizon, both reducing 2050 CO ₂ emissions only by an additional 0.02% <u>1.66% and 1.71%, respectively</u> and cumulative CO₂ emissions by an additional 0.01%. <u>The High DSM assumption reduces cumulative CO₂ emissions by 1.16% while the Low DSM assumption increases cumulative emissions by 1.18%.</u> "					
41	P. 89, ¶ 4	"The High DSM Build Plan and the Low DSM Build Plan add the same amount <u>similar amounts of Solar (4,950 MW) and Battery</u> , but the Low DSM Build Plan adds slightly more Battery (1,600 MW versus 1,200 MW) <u>(5,025 MW versus 4,950 MW of Solar, and 1,600 MW versus 1,300 MW of Battery)</u> and, The Low DSM Build Plan also adds more Frame CT (1,046 MW versus 785 MW)."					
42	P. 89, ¶ 4	"The Reference Build Plan adds slightly more Solar than the DSM Sensitivities (5,025 MW) but is otherwise identical to the Low DSM Build Plan <u>in terms of total resource additions, but differ only in the years added.</u> "					
43	P. 89, Table 56	High DSM	\$1,86377	(\$216)	-1.10.3%	1.467%	0.040%
		Low DSM	\$1,86889	(\$165)	-0.830.27%	1.2839%	-0.1907%
44	P. 89, Table 57	Low DSM	199,759205,099	(2,955385)	-1.461.18%	7,626	-1.71%
45	P. 118, Appendix E	Replace the Low DSM Build Plan Timing and Nature of Resource Additions and Resulting Capacities and Reserve Margins pursuant to the Table Below, noting the following changes:					

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		<ul style="list-style-type: none"> • New Gas (MW) column in 2038 from 0 to 523; in 2041 from 523 to 0; in 2044 from 0 to 523; in 2049 from 523 to 0 • New Solar (MW) column in 2027 from 150 to 225 • New Storage (MW) column in 2036 from 500 to 100; in 2039 from 100 to 0; in 2045 from 100 to 0; in 2047 from 100 to 0; in 2049 from 0 to 500; in 2050 from 0 to 200 • Change Firm Capacity values beginning in 2027 • Change Winter Reserve Margin % beginning in 2036
46	123-136, Appendix F	Appendix F: Delete last column titled “Off Shore Wind” as duplicative
47	132, Appendix F	Appendix F, Low DSM Build Plan: Add 75 MW of Solar IRA in 2027; in 2036 change Battery 50% from 500 to 100; remove 100 MW of Battery 50% in 2039, 2045 and 2047; add 500 MW of Battery 50% in 2049; add 200 MW of Battery 50% in 2050; change the addition of 523 MW of CT Frame 2x from 2041 and 2049 to 2038 and 2044
48	137, Appendix G	Replace Appendix G with the Table below.

Table 47: Energy from Renewable Generation by Five-Year Period

Build Plan	2023-2027	2028-2032	2033-2037	2038-2042	2043-2047	2048-2050	Total
Reference Market Scenario							
Reference	13,467	24,350	34,380	40,841	46,632	30,793	190,464
High Fossil Fuel Prices	14,251	26,532	36,557	46,989	56,567	36,454	217,349
Zero Carbon Cost	13,315	20,879	28,124	32,944	39,114	26,294	160,670
70% CO2 Reduction	14,252	26,459	37,040	50,166	66,359	42,851	237,127
85% CO2 Reduction	14,252	26,464	37,203	50,518	67,304	47,576	243,318

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High Fossil Fuel Prices Market Scenario							
Reference	13,467	24,361	34,392	40,889	46,746	30,863	190,717
High Fossil Fuel Prices	14,252	26,551	36,587	47,055	56,691	36,560	217,696
Zero Carbon Cost	13,311	21,415	28,807	33,668	39,833	27,127	164,160
70% CO2 Reduction	14,249	26,494	37,051	50,195	66,412	42,875	237,276
85% CO2 Reduction	14,250	26,495	37,051	50,206	67,254	47,509	242,766
Zero Carbon Cost Market Scenario							
Reference	13,314	23,649	32,460	37,698	43,549	28,606	179,276
High Fossil Fuel Prices	14,250	26,516	36,535	46,945	56,499	36,422	217,167
Zero Carbon Cost	13,310	21,404	28,784	33,595	39,740	27,058	163,891
70% CO2 Reduction	14,253	26,448	37,019	50,135	66,332	42,828	237,014
85% CO2 Reduction	14,253	26,446	37,017	50,190	67,319	47,582	242,808

Appendix F, Low DSM Build Plan: Timing and Nature of Resource Additions and Resulting Capacities and Reserve Margins

Low DSM Build Plan									
Year	Peak (MW)	Firm Capacity (MW)	Winter Reserve Margin (%)	New Gas (MW)	New Solar (MW)	New Storage (MW)	New Wind (MW)	New SMR (MW)	Retirements (MW)
2023	4903	6305	28.6	0	0	0	0	0	0
2024	4777	6282	31.5	0	0	0	0	0	0
2025	4816	6277	30.3	0	0	0	0	0	0
2026	4854	6328	30.4	0	150	0	0	0	0
2027	4896	6339	29.5	0	225	0	0	0	0
2028	4937	6356	28.7	0	300	0	0	0	0
2029	4978	6033	21.2	0	300	400	0	0	-684
2030	5018	6057	20.7	0	300	0	0	0	0
2031	5057	6131	21.2	662	300	0	0	0	-610
2032	5101	6147	20.5	0	300	0	0	0	0
2033	5144	6207	20.7	0	300	100	0	0	0

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2034	5190	6469	24.6	0	300	300	0	0	0
2035	5239	6475	23.6	0	300	0	0	0	0
2036	5287	6529	23.5	0	300	100	0	0	0
2037	5346	6532	22.2	0	150	0	0	0	0
2038	5403	6921	28.1	523	150	0	0	0	0
2039	5463	6922	26.7	0	150	0	0	0	0
2040	5522	6919	25.3	0	150	0	0	0	0
2041	5584	6917	23.9	0	150	0	0	0	0
2042	5647	6919	22.5	0	150	0	0	0	0
2043	5711	6920	21.2	0	150	0	0	0	0
2044	5775	7445	28.9	523	150	0	0	0	0
2045	5840	7446	27.5	0	150	0	0	0	0
2046	5906	7449	26.1	0	150	0	0	0	0
2047	5973	7451	24.7	0	150	0	0	0	0
2048	6040	7453	23.4	0	150	0	0	0	0
2049	6108	7364	20.6	0	150	500	0	0	0
2050	6177	7465	20.9	0	0	200	0	0	0

Appendix G: Energy from Renewable Generation Summed by Five-year Period for the Twenty-Four Cases

Energy from Renewable Generation by Five-Year Period (GWh)							
Market Scenario	Build Plan	2023-2027	2028-2032	2033-2037	2038-2042	2043-2047	2048-2050
Reference	Reference	13,467	24,350	34,380	40,841	46,632	30,793
Reference	High Fossil Fuel Prices	14,251	26,532	36,557	46,989	56,567	36,454
Reference	Zero Carbon Cost	13,315	20,879	28,124	32,944	39,114	26,294
Reference	70% CO2 Reduction	14,252	26,459	37,040	50,166	66,359	42,851
Reference	85% CO2 Reduction	14,252	26,464	37,203	50,518	67,304	47,576
High Fossil Fuel Prices	Reference	13,467	24,361	34,392	40,889	46,746	30,863
High Fossil Fuel Prices	High Fossil Fuel Prices	14,252	26,551	36,587	47,055	56,691	36,560
High Fossil Fuel Prices	Zero Carbon Cost	13,311	21,415	28,807	33,668	39,833	27,127
High Fossil Fuel Prices	70% CO2 Reduction	14,249	26,494	37,051	50,195	66,412	42,875

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High Fossil Fuel Prices	85% CO2 Reduction	14,250	26,495	37,051	50,206	67,254	47,509
Zero Carbon Cost	Reference	13,314	23,649	32,460	37,698	43,549	28,606
Zero Carbon Cost	High Fossil Fuel Prices	14,250	26,516	36,535	46,945	56,499	36,422
Zero Carbon Cost	Zero Carbon Cost	13,310	21,404	28,784	33,595	39,740	27,058
Zero Carbon Cost	70% CO2 Reduction	14,253	26,448	37,019	50,135	66,332	42,828
Zero Carbon Cost	85% CO2 Reduction	14,253	26,446	37,017	50,190	67,319	47,582
Sensitivity	Electrification	13,110	18,480	21,162	25,894	32,452	22,318
Sensitivity	Energy Conservation	14,251	26,314	35,546	40,935	46,938	31,376
Sensitivity	Aggressive Regulation	14,252	26,648	36,981	47,932	57,602	37,949
Sensitivity	High DSM	13,309	23,391	33,370	39,515	45,084	30,226
Sensitivity	Low DSM	13,469	24,357	34,350	40,375	45,696	30,231
Sensitivity	Wateree Battery	13,310	23,593	33,557	39,608	45,768	30,305
Sensitivity	Wateree CT	13,310	23,489	33,504	39,745	45,458	30,353
Sensitivity	Williams 2047	13,466	24,348	34,189	40,051	45,298	30,295
Sensitivity	High Fuel Williams 2047	14,253	26,550	36,091	44,048	52,569	36,211